

Title (en)
STATOR COOLING STRUCTURE

Title (de)
STATORKÜHLSTRUKTUR

Title (fr)
STRUCTURE DE REFROIDISSEMENT DE STATOR

Publication
EP 3817202 A4 20210811 (EN)

Application
EP 19838281 A 20190326

Priority
• JP 2018135662 A 20180719
• JP 2019012825 W 20190326

Abstract (en)
[origin: EP3817202A1] A stator cooling structure (402) is disclosed in which the stator cooling structure (402) includes a supporting member (60, 60A, 70) that has a cylindrical shape along an axial direction (X) of a rotating electric machine (10), that supports a stator core (112) of the rotating electric machine, and that forms a cooling water passage (95) and oil passage (35), and the stator core (112), the cooling water passage (95), and the oil passage (35) are disposed adjacent to each other in this order from an inner radial side.

IPC 8 full level
H02K 9/19 (2006.01); **H02K 5/20** (2006.01)

CPC (source: EP US)
H02K 1/20 (2013.01 - US); **H02K 5/203** (2021.01 - EP US); **H02K 9/197** (2013.01 - US); **Y02T 10/64** (2013.01 - EP)

Citation (search report)
• [XY] US 2015214817 A1 20150730 - KIM SANG-JIN [KR]
• [X] JP 2010268633 A 20101125 - HONDA MOTOR CO LTD
• [X] JP 2010263715 A 20101118 - HONDA MOTOR CO LTD
• [Y] JP 2012023837 A 20120202 - IHI CORP
• See references of WO 2020017101A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3817202 A1 20210505; EP 3817202 A4 20210811; CN 112243562 A 20210119; JP 7156378 B2 20221019; JP WO2020017101 A1 20210513; US 2021234416 A1 20210729; WO 2020017101 A1 20200123

DOCDB simple family (application)
EP 19838281 A 20190326; CN 201980038287 A 20190326; JP 2019012825 W 20190326; JP 2020530892 A 20190326; US 201915734501 A 20190326